

**ABSTRACT**

A method of forming a traction drive rolling element including: forming a preform having a working surface with an arcuate profile in section taken along a central axis; 5 supporting the preform to be rotatable about the central axis; allowing a relative movement between the preform and a grooving tool for moving the grooving tool along the arcuate profile, simultaneously with rotating the preform about the central axis, to form microscopic recesses and projections 10 alternately arranged in a direction perpendicular to the central axis along the arcuate profile; pressing a grindstone having a contact surface area of 25 mm<sup>2</sup> or less, on the working surface; and allowing a relative movement between the preform and the grindstone for moving the 15 grindstone along the arcuate profile simultaneously with rotating the preform while keeping pressing the grindstone on the working surface until a height of the microscopic projections becomes 3  $\mu\text{m}$  or less.